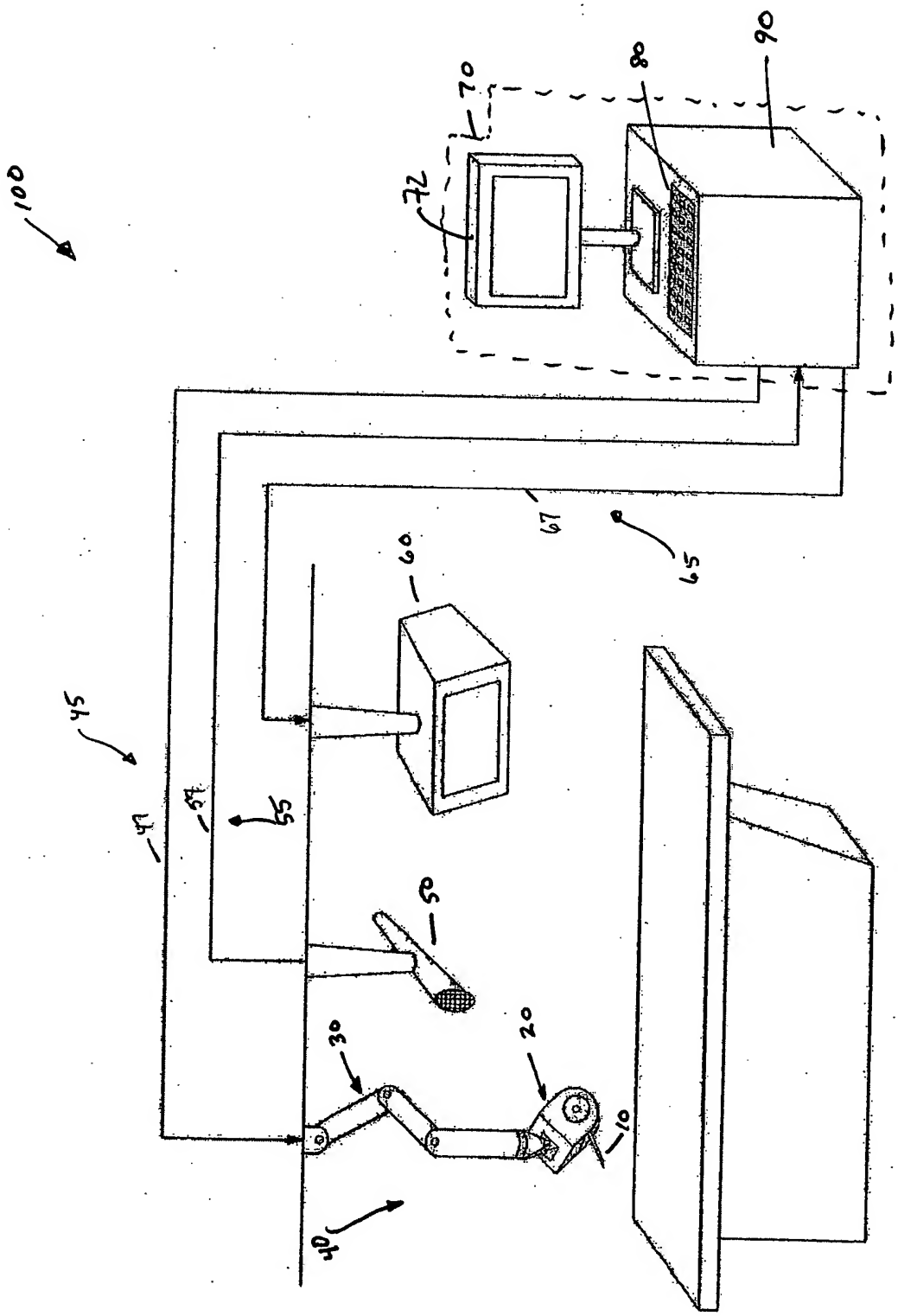

Figure 1

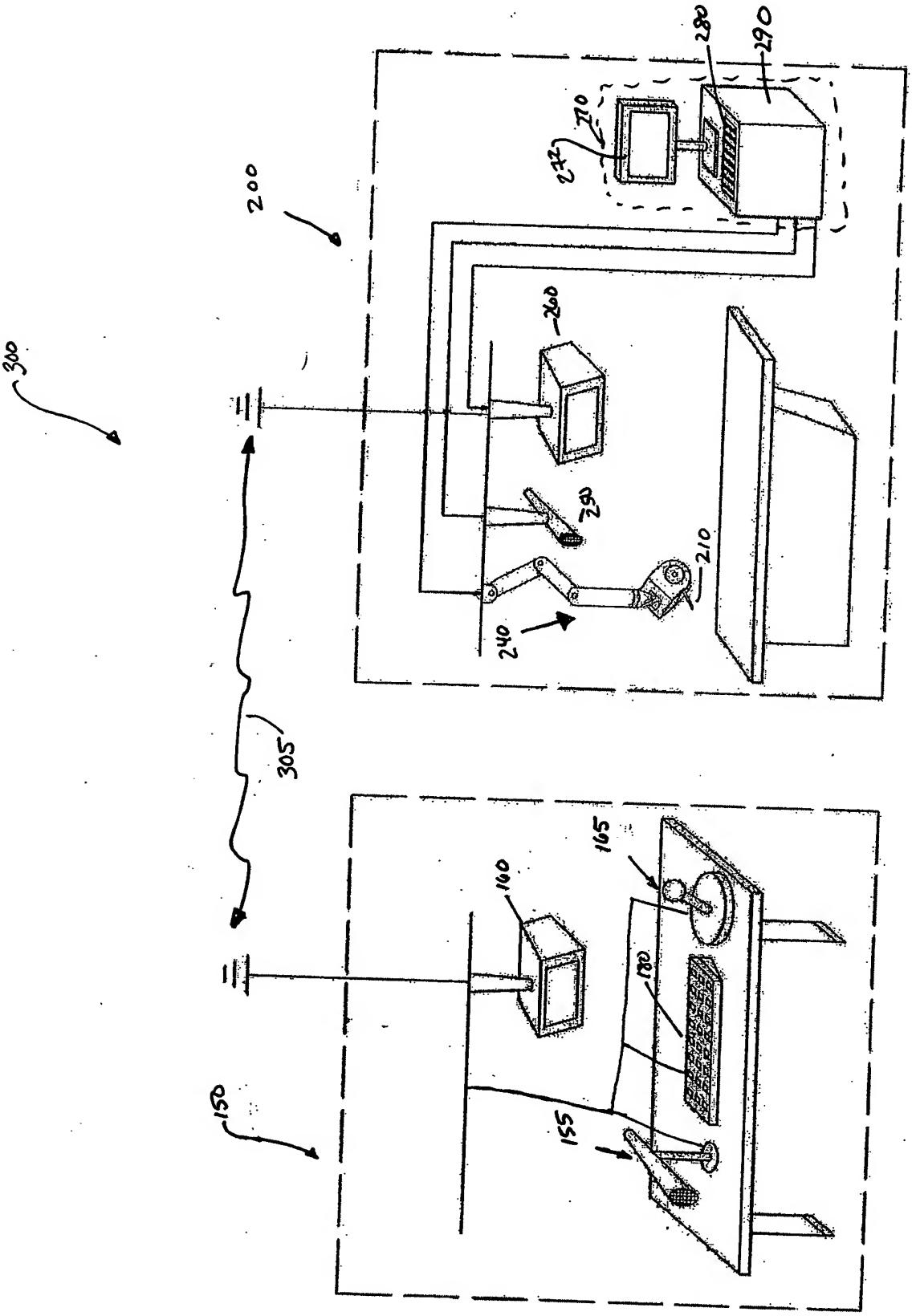

Figure 2

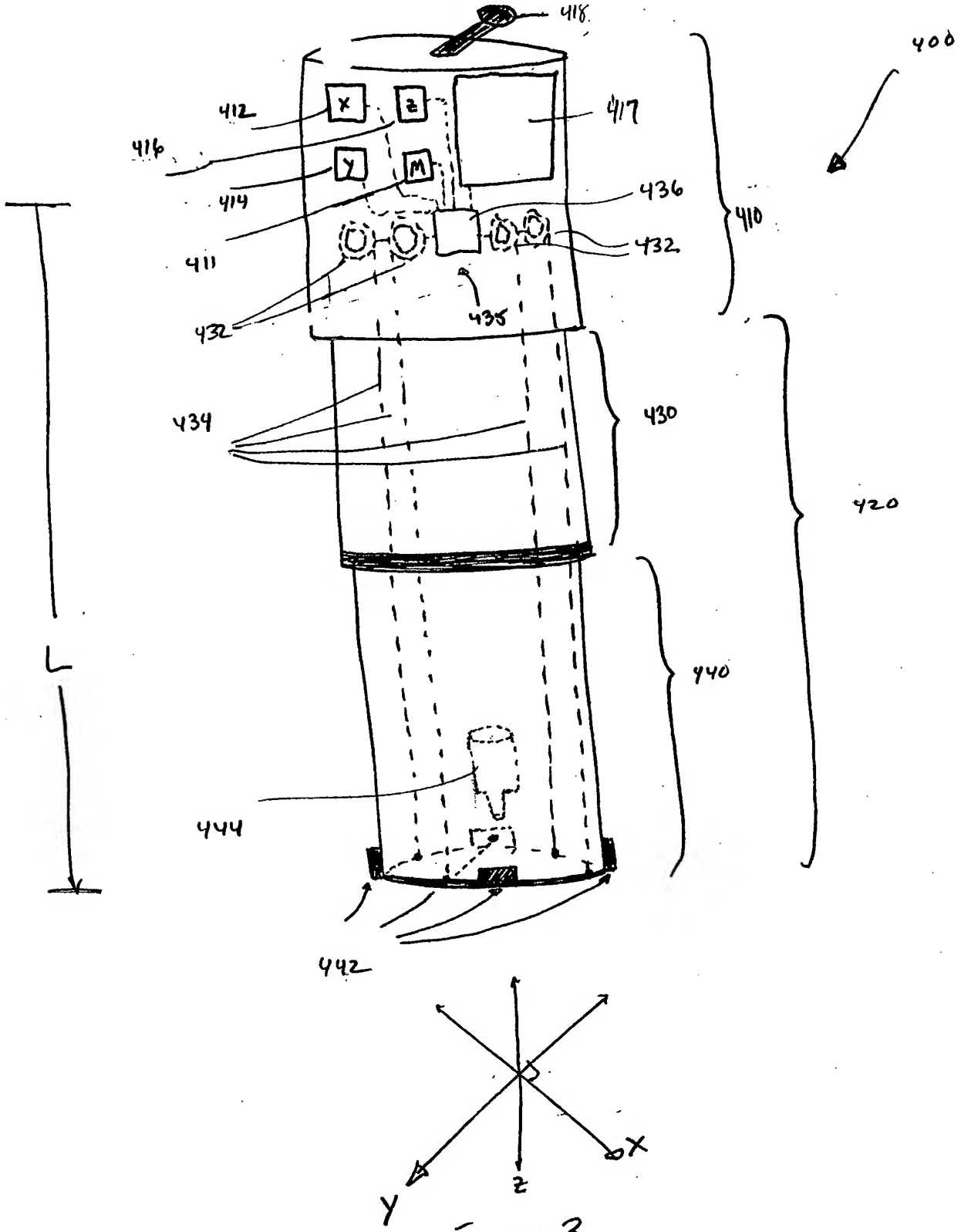
418
400
412
X
Z
417
416
Y
M
414
436
410
411
432
432
435
434
430
420
L
440
444
442
X
Z
Y

FIGURE 3

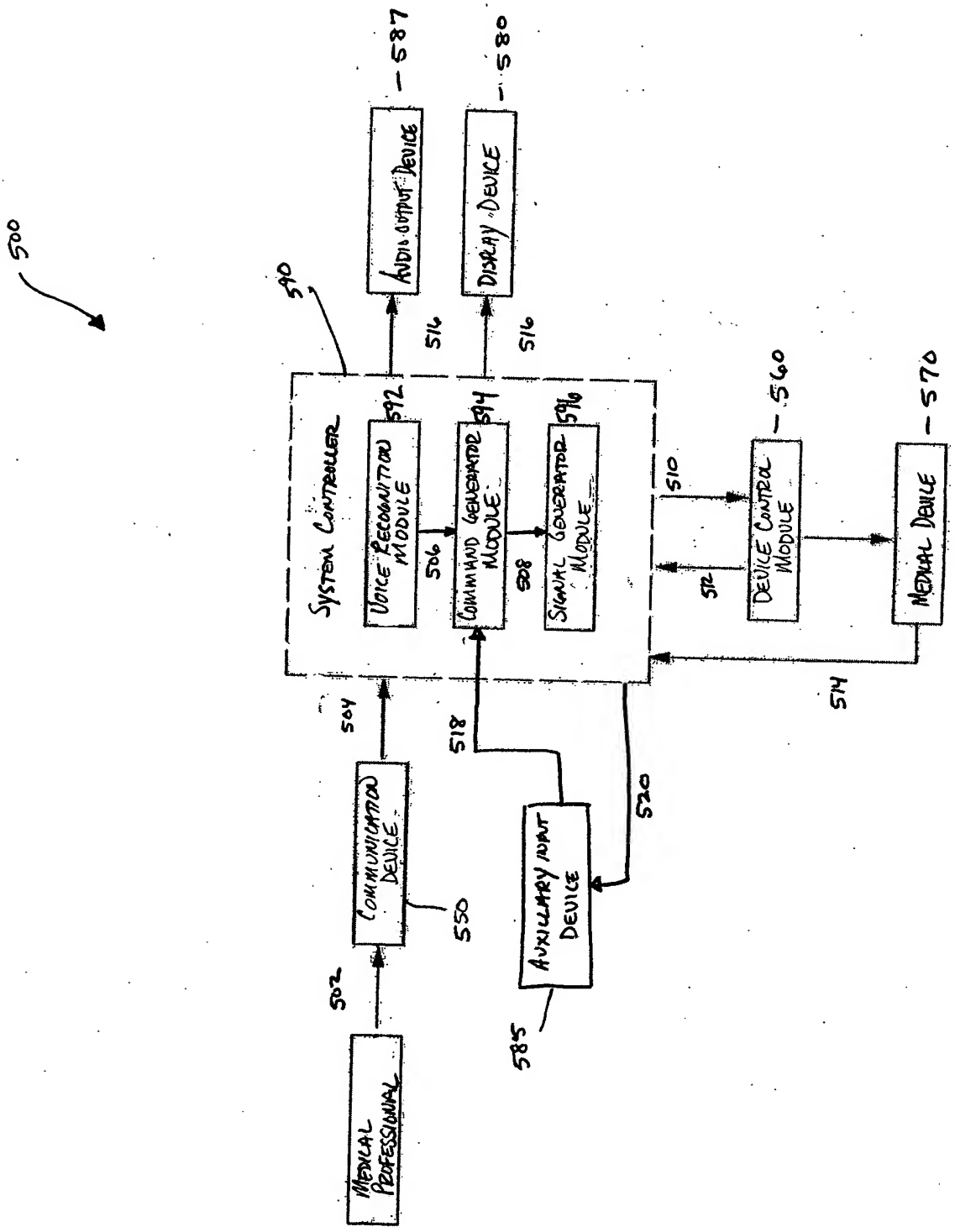
500
540
587
AUDIO OUTPUT DEVICE
580
DISPLAY DEVICE
516
516
SYSTEM CONTROLLER
592
VOICE RECOGNITION MODULE
594
COMMAND GENERATOR MODULE
596
SIGNAL GENERATOR MODULE
506
508
510
512
560
DEVICE CONTROL MODULE
570
MEDICAL DEVICE
514
504
518
520
550
COMMUNICATION DEVICE
585
AUXILIARY INPUT DEVICE
502
MEDICAL PROFESSIONAL

FIGURE 4

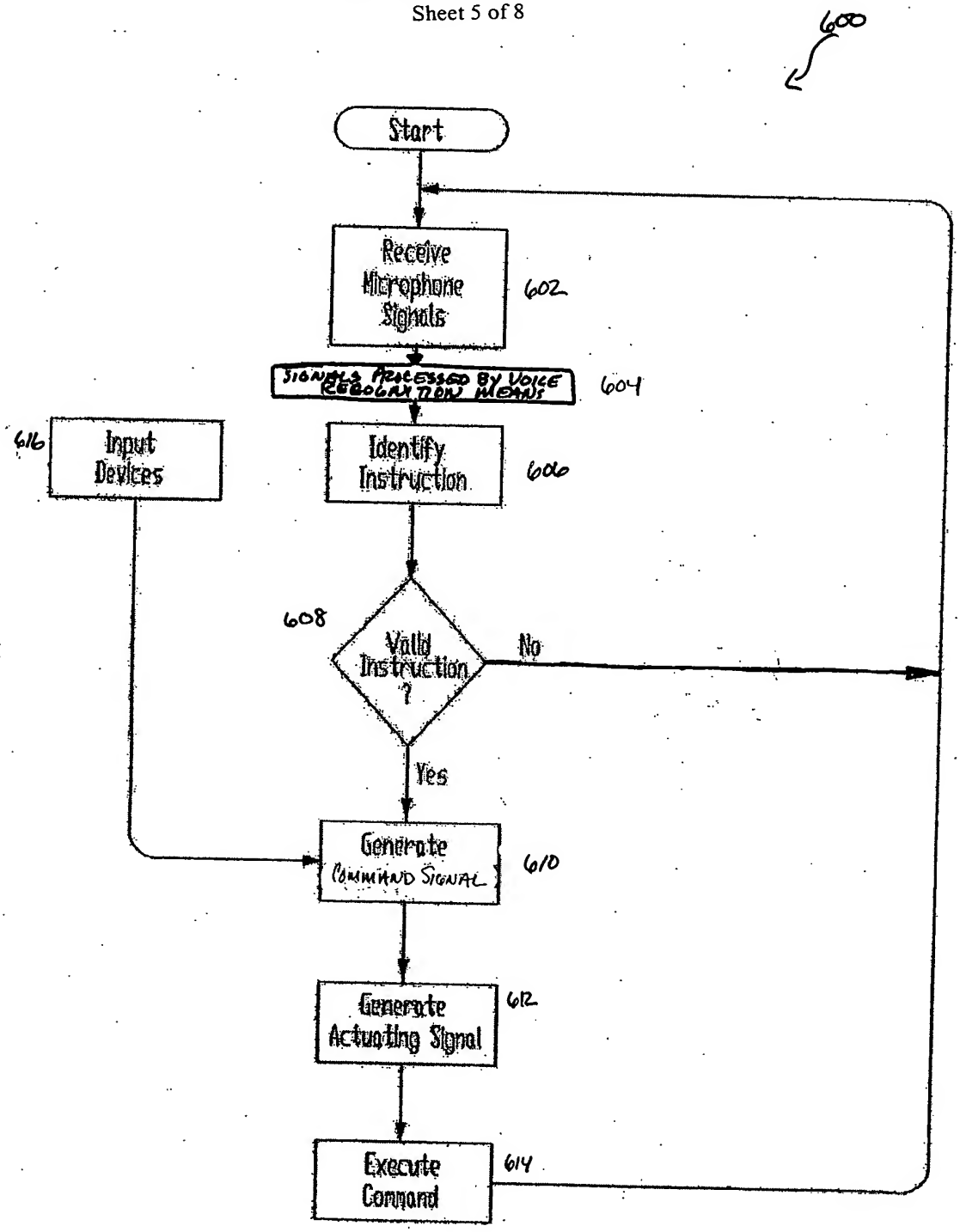
600
Start
Receive Microphone Signals
602
Signals Processed By Voice Recognition Means
604
616
Input Devices
Identify Instruction
606
608
Valid Instruction ?
No
Yes
Generate Command Signal
610
Generate Actuating Signal
612
Execute Command
614

FIGURE 5

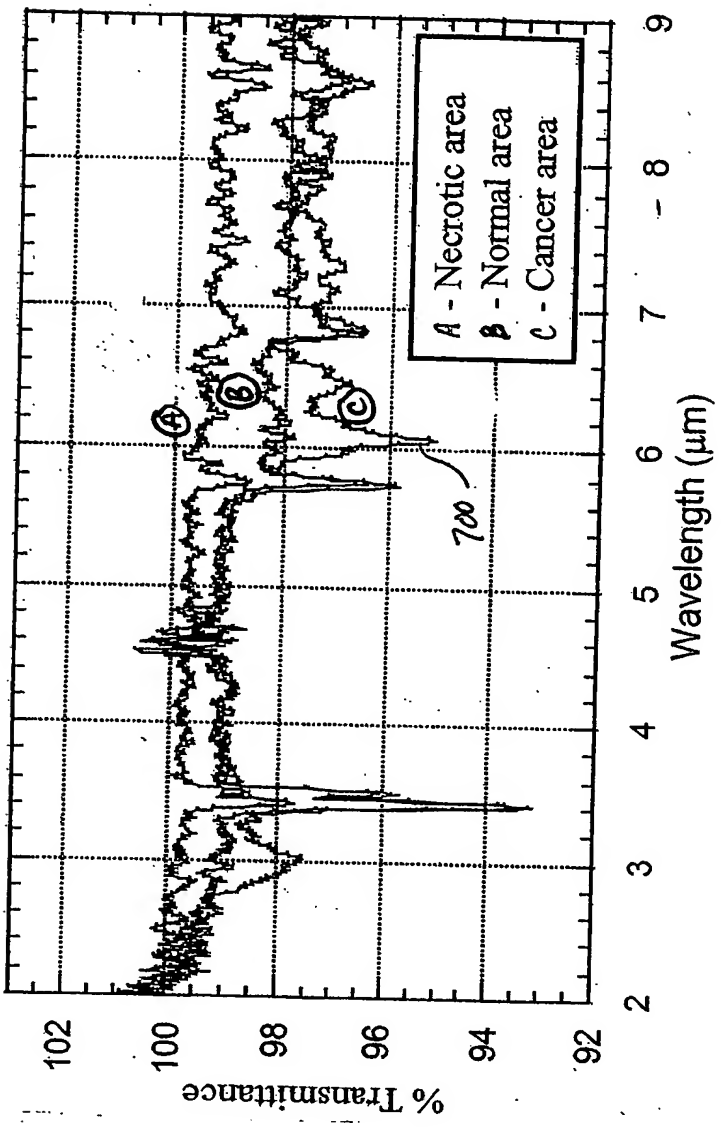

FIGURE 6B

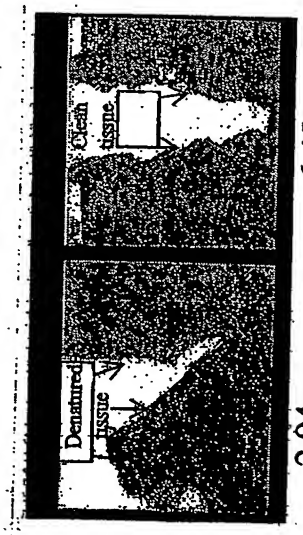

FIGURE 6A

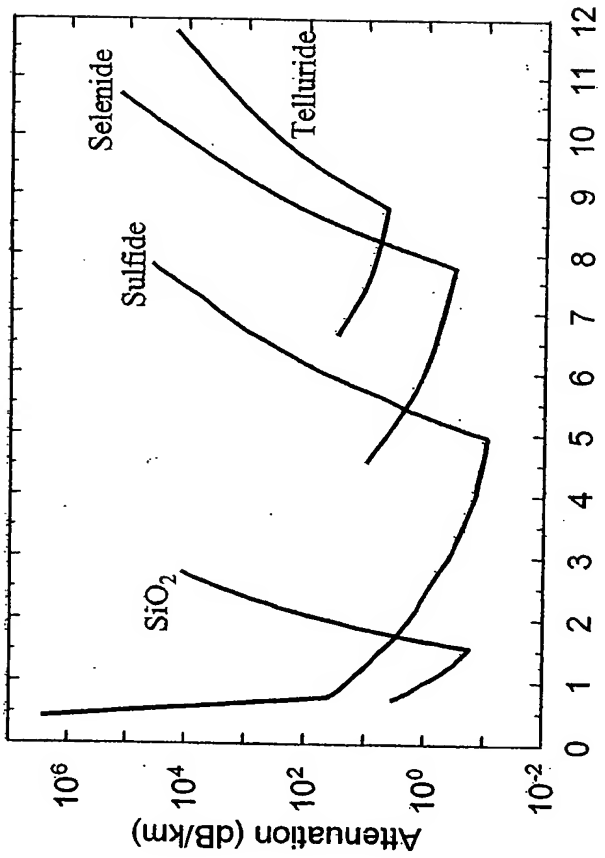
Attenuation (dB/km)
10^{6}
10^{4}
10^{2}
10^{0}
10^{-2}
0 1 2 3 4 5 6 7 8 9 10 11 12
Wavelength (μm)
SiO_2
Sulfide
Selenide
Telluride

FIGURE 7

FIGURE 8A

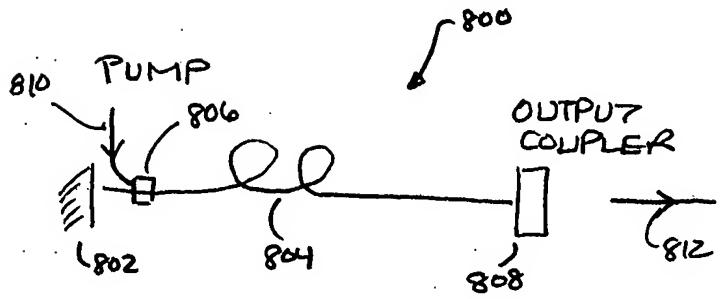

FIGURE 8B

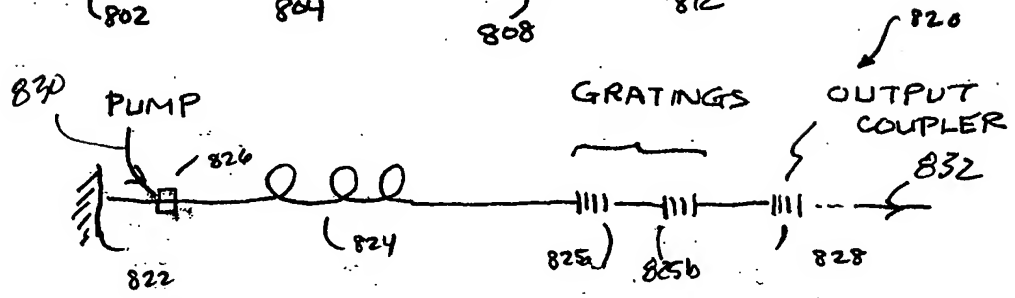

FIGURE 8C

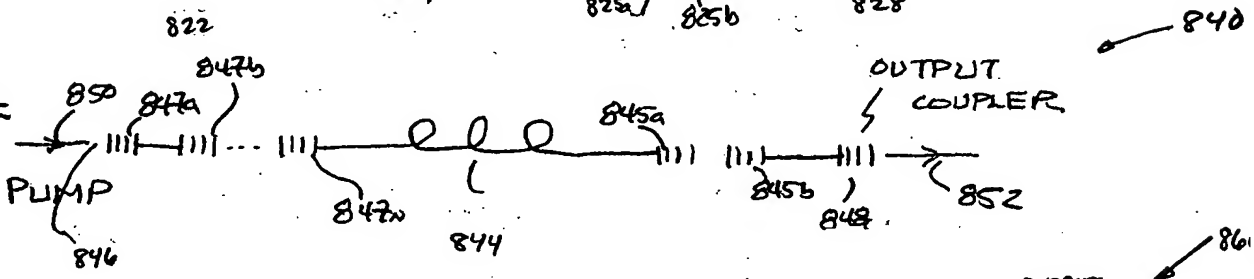

FIGURE 8D

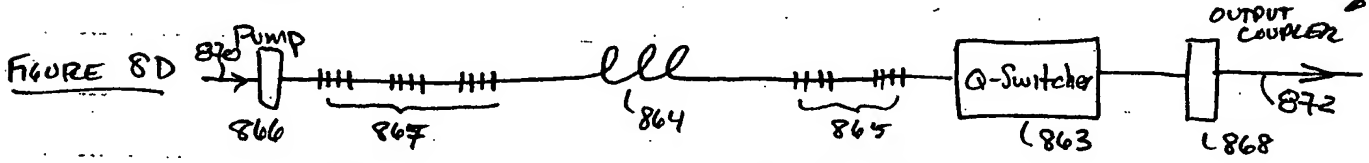

FIGURE 9A

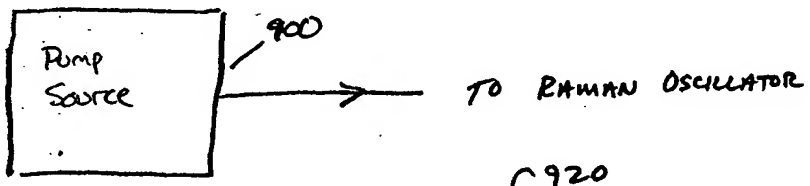

FIGURE 9B

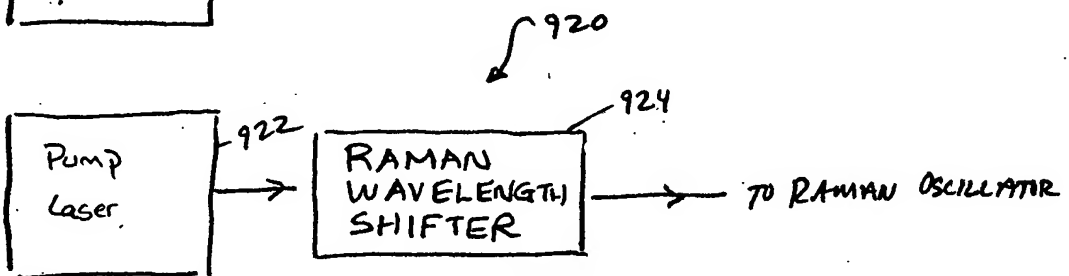
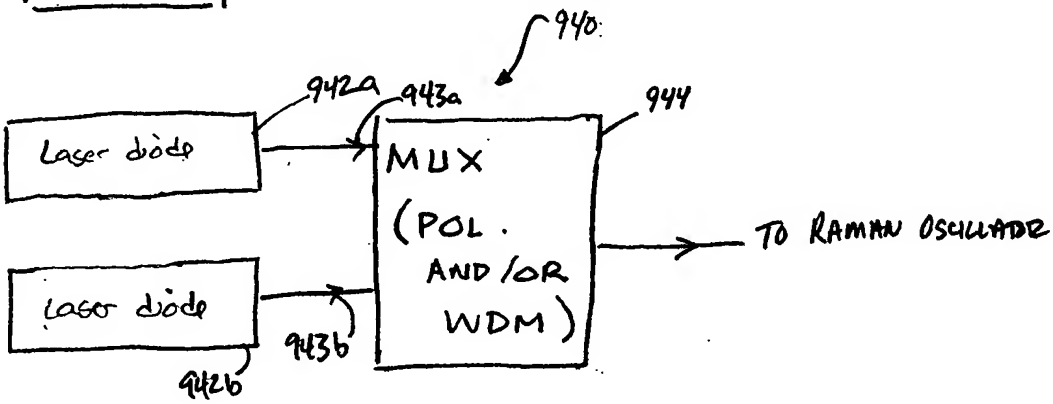
FIGURE 9C